

FAFS 7010 Food Microbiology (3,3,0) (E)

Prerequisite: Postgraduate standing

This course aims on the interaction of microorganisms and food in relation to foodborne diseases, food spoilage and even food bioprocessing. Food technologies to render and keep foods safe will be addressed in details. Most up-to-date analytical techniques for food biological safety monitoring with local relevance will be discussed in details.

FAFS 7020 Analytical Process and Applied Statistics (2,2,0) (E)

Prerequisite: Postgraduate standing

The objective of this course is to help students to develop an analyst's approach to solve chemical analytical problems by equipping them with important basic tools including statistics, sampling and analytical planning, data treatment and interpretation, and experimental design.

FAFS 7030 Sample Pretreatment Methods (1,1,0) (E)

Prerequisite: Postgraduate standing

This course introduces the principles and applications of traditional and modern sample pretreatment methods, including Soxhlet extraction, microwave extraction, pressurized liquid extraction, supercritical fluid extraction and solid-phase microextraction. Emphases will be placed on the sample pretreatment of herbal materials and food.

FAFS 7040 Food Analysis (3,3,0) (E)

Prerequisite: Postgraduate standing

This course discusses methods for food analysis in relation to the nutrition and safety aspects of food products, which are of increasing importance as industries strive to meet rising consumer expectation and regulatory requirements. This course addresses the principles and applications of various analytical tools in food analysis. Most up-to-date analytical techniques for food monitoring with local relevance will be discussed in detail.

FAFS 7050 Food Analysis Laboratory (3,*,*)

Co-requisite: FAFS 7040 Food Analysis

This course aims to provide thorough hands-on experience for students to perform and understand modern analytical techniques/instrumentation in food and its safety analysis.

FAFS 7060 Food Chemistry (3,3,0) (E)

Prerequisite: Postgraduate standing

This course provides students with knowledge on the chemical constituents of food, their functional significance in food systems and chemical transformation of these components in relation to food quality. The role of chemical additives and genetically modified organisms in food production is also discussed.

FAFS 7070 Food Toxicology (3,3,0) (E)

Prerequisite: Postgraduate standing

The course aims to provide the fundamentals on food toxicology. Main emphasis will be placed on the characteristics and toxicology of man-made (e.g. pesticide, additives) or naturally occurring (e.g. microbial, plant, animal toxins) contaminants in food.

FAFS 7080 Food Quality, Law and Safety Management (3,3,0) (E)

Prerequisite: Postgraduate standing

The course is designed to introduce students to the growing consumer demand in food safety and growing awareness of the food industry in the importance of maintaining high food quality. This course covers the principles and international standards of food quality and safety management, and provides an understanding of the legislative control related to food quality, safety and human health protection in Hong Kong.

FAFS 7090 Dissertation in Food Analysis and Food Safety Management (3,*,*)

Prerequisite: Students of MSc in Food Analysis and Food Safety Management

The course aims to train students to solve or handle real-life

food analysis, safety and management issues by conducting an independent project.

FAFS 7100 Analytical Spectroscopy for Food Analysis (3,3,0) (E)

Prerequisite: Postgraduate standing

The course aims to provide a thorough discussion on the basic principles and applications of modern analytical spectroscopy at the advanced level. Emphasis will be put on the characteristics, analytical aspects, merits and limitations, as well as the practical applications of different spectrochemical methods on food analysis.

FAFS 7110 Mass Spectrometry for Food Analysis (1,1,0) (E)

Prerequisite: Postgraduate standing

This course aims to provide students with in-depth knowledge on mass spectrometry and its applications for food analysis.

FAFS 7120 Management of Public Health Risks (3,3,0) (E)

Prerequisite: Postgraduate standing

The course focuses on understanding the principle of epidemiological methods, their design and application. It also trains students to develop skills to identify the principal factors imposing on human and other environmental species and to assess the significance of emerging issues in an objective manner.

FAFS 7130 Separation Science (3,3,0)

Prerequisite: Postgraduate standing

This course provides a systematic study of the modern techniques of gas chromatography, high-performance liquid chromatography, ultra-performance liquid chromatography and capillary electrophoresis. Emphasis will be placed on the theory, principle and application of these analytical separation techniques to real-world chemical analysis.

FAFS 7140 Laboratory Management (2,2,0) (E)

Prerequisite: Postgraduate standing

This course aims to provide students with up-to-date knowledge of laboratory management in modern chemical/clinical laboratories.

FAFS 7150 Pharmaceutical and Traditional Chinese Medicinal Analysis (1,1,0) (E)

Prerequisite: Postgraduate standing

This course aims to provide students with in-depth knowledge on selected topics in pharmaceutical and traditional Chinese medicinal Analysis.

FAFS 7160 Advanced Study on Food Safety Management System (1,1,0)

Prerequisite: Postgraduate standing

The course is designed to train students to be familiar with and able to apply the HACCP principles to set up a food management system for a food establishment. This course continues from the FAFS 7080 the principles and international standards of food quality and safety management, and provides an in-depth understanding of the legislative control related to food quality, safety and human health protection in Hong Kong.

FILM 2005 Film History (3,3,0) (E)

The course will introduce students to some of the key moments in the history of the cinema, and to a number of key issues relevant to a study of the subject. Topics covered will include the historical context of film production, major movements, stylistic trends, directors and films.

FILM 2006 Introduction to Digital Video and Sound Production (3,3,0) (C)

The course aims to introduce students to the essential aspects of sequential media, especially digital video and sound production. With a view to understanding unique potentials, as well as limitations of the fundamental design with discrete media in the process of visual-aural communication, students will learn how

to create and develop ideas via related practical skills including video shooting and editing, sound recording, and media design and production. In line with aesthetic and theoretical studies of different digital video and computer animation artworks, students will be provided with hands-on practices of digital video and sound production skills and knowledge. Both theoretical and practical trainings aim to provide students the developing multidisciplinary knowledge for using sequential media in digital video and computerized media productions.

FILM 2007 Principles of Photo-imaging (3,2,2) (C)

This course introduces students the basic visual grammar of photographic language. They will experience and appreciate contemporary photo imaging forms and concepts through a practical, analytical and critical approach. Students will learn photographic seeing from the practical knowledge of analog/film, digital manipulation and control of professional quality output.

FILM 2008-9 Film and Media Arts Practicum I (0,*,*)

(1) *Film Concentration*: This course aims to engage students in projects operated by The Young Director (TYD). The TYD is a student organization, which is jointly run by second and third year of Film Concentration students. Students gain practical experience by participating in the planning and execution of moving image production, circulation and promotion projects.

(2) *Media Arts Concentration*: Students gain practical experience in managing Media Arts projects by operating under the Digiforce (DF). Digiforce is a student organization which is jointly run by second and third year Media Arts Concentration students. Through a series of projects, students learn how to plan, organize, visualize, design and work as a team.

FILM 2015 Script Writing (3,3,0) (C)

This course is designed on the principle that creativity can be cultivated through the deliberate and dynamic use of creative thinking and the creative process. Students will be encouraged to engage in critical and creative thinking in all aspects of learning and to gain hands-on experience of the creative process.

FILM 2016 Film and Video Cinematography (3,3,0) (C)

Instruction in the use of the equipment available for hands-on exercises is provided to illustrate fundamental principles of cinematography in film and video. Workshops are also conducted to allow students to learn to shoot in the studio and on location. By the end of the semester, students must demonstrate an ability to communicate in basic visual terms and to produce work in both film and video cinematography.

FILM 2017 Introduction to Film and Media Arts (3,3,0) (E)

This course introduces students to the fundamentals of cinema and media arts as interdisciplinary fields with distinct histories and practices. The course has a bifocal approach. The first part focuses on film elements and reading film through the study of key works. This part also emphasizes both the institution of cinema and specific film texts (including mainstream, avant-garde and non-fiction). Students will be asked to consider ways in which cinema makes sense to audiences, practitioners and theorists. The second part of this course will engage students with a comprehensive understanding of media arts by covering its historical developments and intersections between arts and digital technologies to the evolution of applications from early experimentations to contemporary creative and media arts. Students will learn the fundamental theories and principles that have empowered the media to serve as a tool for creative expression and as a medium of artistic production.

FILM 2025 Visual Communication (3,3,0) (E)

This course attempts to introduce students the basic knowledge of visual principles and its cultural and originative contexts. Students will identify visual communication as a form of non-verbal communications. The functions of visual design and its cognitive usage and context will be expressed and analysed. Examples of art and design will be employed to illustrate the different ideas and

design approaches.

In addition, students need to study and identify the functions and development of visual practices and technological movement and its applications. This course will also facilitate students to express their own findings through visual studies.

Eventually students will be able to appreciate good visual practices and understand the aesthetics of visual communication in our everyday lives.

FILM 2035 Fundamentals in Computer Graphics (3,3,0) (C)

This course is designed to introduce the fundamentals of computer graphics as how they are applied to arts and design, from both an academic and studio perspective. Both technical and aesthetic issues will be addressed. Aesthetic issues will encompass concepts, composition, appreciation and historical context. Technical topics will include raster and vector imaging, scanning, retouching, printing, animated graphics, and other related topics. The course is based on lectures, demonstration, and a series of workshops which will involve the creation of computer generated images.

FILM 2036 Cinema Theories and Aesthetics of Film (3,3,0) (E)

The course starts with a survey of the major concept of aesthetics. Fundamentals on the different perspectives, cultural in general and media in particular, on beauty will be discussed. Then the course will focus on film. It starts with the aesthetic elements in moving image production: frame, perspective, composition, camera movement, plan-sequence, montage, lighting, colour, sound, and last but not the least, acting. Then it proceeds to see how these elements join together to create different aesthetic forms of audio-visual works. Large amount of audio-visual materials will be presented in the classroom to acquaint students with different significant cinematic styles in film history. In the later part of the course, besides formal aspects, emphasis will be put on the experiential aspects. Philosophical questions concerning the essence of film will be addressed.

FILM 2037 Fundamentals of Media Arts (3,3,0) (E)

Art, science and technology are incorporated as an integral body of media arts in contemporary interdisciplinary education and exhibition environments with new possibilities of dynamic interactions. This course will introduce the meaning of media arts through the study of media history and archaeology from traditional film and video art to multimedia design, net art, digital art, computer animation, computer graphics, interactive installation, robotic art, biotechnology, and so forth. Different media arts and their applications of different media technologies and interface design will be studied to explore their relationship to transforming culture and society. Students will gain broader understandings and critical awareness of different concepts and developments of media arts and mediated interaction from early experiments by futurists and constructivists to most recent practices like interactive games and virtual reality experiments with wearable and portable media. Eventually the students will be able to identify creative ideas of design solutions for different media arts and applications ranging from conceptual to virtual art, computer graphics to digital animation, and performance to interactive installation.

FILM 3005 Film and Video Editing (3,3,0) (C)

Prerequisite: FILM 2016 Film and Video Cinematography
This course provides an exploration and practical application of the traditional and contemporary experimental theories of film editing. The fundamental steps of film post-production and new electronic technologies being utilized in film and video post-production are introduced.

FILM 3006 Sound Recording and Mixing (3,3,0) (C)

Prerequisite: FILM 2016 Film and Video Cinematography
The goal of the Sound Recording and Mixing course is to train the students in all the basic elements and stages of audio production as they relate to film/video production. During this course,